



Patent  
Attorney's Docket No. T-5971

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of: ) Customer No.: 34014  
)  
CASEY D. STOKES et al. ) Group Art Unit: 1713  
)  
Application No.: 10/600,898 ) Examiner: Unassigned  
)  
Filed: June 19, 2003 )  
)  
For: LIVING AND QUASILIVING CATIONIC )  
TELECHELIC POLYMERS QUENCHED )  
BY N-SUBSTITUTED PYRROLE AND )  
METHODS FOR THEIR PREPARATION )

**INFORMATION DISCLOSURE STATEMENT**  
**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is an Information Disclosure Statement and accompanying form  
PTO/SB/08A (Substitute for form 1449A/PTO) for the above-identified patent application.

- ☒ [X] No additional fee is required for submission of an IDS.  
☐ [ ] The fee of \$180.00 (126) as set for the in 37 C.F.R. § 1.17(p) is also enclosed.  
☐ [ ] A certification under 37 C.F.R. § 1.97(e) is also enclosed.  
☐ [ ] A certification under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (126) as set  
forth in 37 C.F.R. § 1.17(p) are also enclosed.  
☐ [ ] Charge \$ \_\_\_\_\_, to Deposit Account No. 03-1620 for the fee due.  
☐ [ ] A check in the amount of \$ \_\_\_\_\_, is enclosed for the fee due.

The Commissioner is hereby authorized to charge any appropriate fees under  
37 C.F.R. §§ 1.16, 1.17 and 1.21 that may required by submittal of this paper, and to credit any  
overpayment, to Deposit Account No. 03-1620.

Respectfully submitted,

CHEVRONTExACO CORPORATE LAW DEPARTMENT

By: \_\_\_\_\_

Joseph P. Foley  
Registration No. 45,757

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(925) 842-1564

Date: October 23, 2003



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POLYMERS QUENCHED BY	)	
N-SUBSTITUTED PYRROLE AND	)	
METHODS FOR THEIR	)	
PREPARATION	)	

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

1. U.S. Patent 4,758,631
2. U.S. Patent 4,910,321
3. U.S. Patent 4,943,616
4. U.S. Patent 4,946,899
5. U.S. Patent 5,032,653
6. U.S. Patent 5,122,572
7. U.S. Patent 5,169,914
8. U.S. Patent 5,225,492
9. U.S. Patent 5,340,881

10. U.S. Patent 5,350,819
11. U.S. Patent 5,395,885
12. U.S. Patent 5,444,135
13. U.S. Patent 5,448,000
14. U.S. Patent 5,451,647
15. U.S. Patent 5,506,316
16. U.S. Patent 5,580,935
17. U.S. Patent 5,629,394
18. U.S. Patent 5,663,470
19. U.S. Patent 5,690,861
20. U.S. Patent 5,777,044
21. U.S. Patent 6,033,446
22. U.S. Patent 6,194,597 B1
23. U.S. Patent 6,407,066 B1
24. U.S. Patent 6,515,083 B2
25. International Publication No. WO 94/13706
26. International Publication No. WO 99/09074
27. International Publication No. EP 0 397 081 A2
28. International Publication No. EP 1 209 170 A1
29. J.P. KENNEDY and ATSUSHI, Living Carbocationic Polymerization, XXXIX, Isobutylene Polymerization in the Presence of Pyridine and Various Other Electron Donors, J. Macromol. Sci. - Chem., A28(2), pp. 197-207 (1991) by Marcel Dekker, Inc.
30. R.J. KEATON, Living Ziegler-Natta Polymerization, (2002)  
[http://www.chem.wayne.edu/acs\\_organic\\_division/essay\\_2002/keaton.pdf](http://www.chem.wayne.edu/acs_organic_division/essay_2002/keaton.pdf),  
10/22/2003 retrived.
31. R. FAUST and J.P. KENNEDY, Living Carbocationic Polymerization. XXI. Kinetic and Mechanistic Studies of Isobutylene Polymerization Initiated by Trimethylpentyl Esters of Different Acids, J. Macromol. Sci. - Chem., A27(6), pp. 649-667 (1990) by Marcel Dekker, Inc.

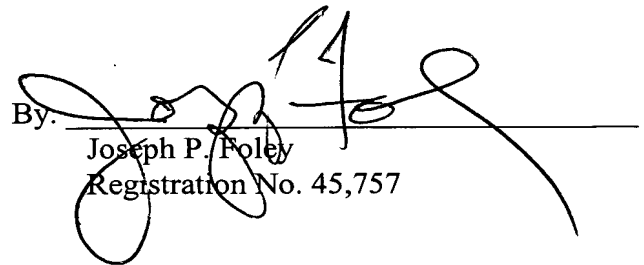
32. B. KOROSKENYI and R. FAUST, Initiation Via Haloboration in Living Cationic Polymerization. 6. A Novel Method for the Synthesis of Primary Amine Functional Polyisobutylenes, J.M.S. - Pure Appl. Chem., A36(12), pp. 1879-1893 (1999) by Marcel Dekker, Inc.
33. M. ROTH and H. MAYR, A Novel Method for the Determination of Propagation Rate Constants: Carbocationic Oligomerization of Isobutylene, Macromolecules (1996), 29, pp. 6104-6109 American Chemical Society
34. S. HADJIKYRIACOU and R. FAUST, Living Coupling Reaction in Living Cationic Polymerization. 3. Coupling Reaction of Living Polyisobutylene Using Bis(furanyl) Derivatives, Macromolecules (2000), 33, 730-733 American Chemical Society

The documents are being submitted before the first Office Action on the merits, therefore no fee or statement is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents are listed on the attached form PTO/SB/08a (Substitute for form 1449A/PTO). It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

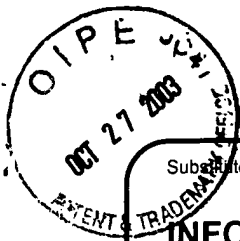
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Date: October 23, 2003



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/600,898
Filing Date	June 19, 2003
First Named Inventor	Casey D. Stokes et al.
Art Unit	1713
Examiner Name	Unassigned
Attorney Docket Number	T-5971

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	AA	US- 4,758,631	07-19-1988	Kennedy et al.	All
	AB	US- 4,910,321	03-20-1990	Kennedy et al.	All
	AC	US- 4,943,616	07-24-1990	Mishra et al.	All
	AD	US- 4,946,899	08-07-1990	Kennedy et al.	All
	AE	US- 5,032,653	07-16-1991	Cheradame et al.	All
	AF	US- 5,122,572	06-16-1992	Kennedy et al.	All
	AG	US- 5,169,914	12-08-1992	Kaszas et al.	All
	AH	US- 5,225,492	07-06-1993	Kennedy et al.	All
	AI	US- 5,340,881	08-23-1994	Kennedy et al.	All
	AJ	US- 5,350,819	09-27-1994	Shaffer	All
	AK	US- 5,395,885	03-07-1995	Kennedy et al.	All
	AL	US- 5,444,135	08-22-1995	Cheradame et al.	All
	AM	US- 5,448,000	09-05-1995	Gullapalli et al.	All
	AN	US- 5,451,647	09-19-1995	Faust et al.	All
	AO	US- 5,506,316	04-09-1996	Shaffer	All
	AP	US- 5,580,935	12-03-1996	Shaffer	All
	AQ	US- 5,629,394	05-13-1997	Cheradame et al.	All
	AR	US- 5,663,470	09-02-1997	Chen et al.	All
	AS	US- 5,690,861	11-25-1997	Faust	All
	AT	US- 5,777,044	07-07-1998	Faust	All
	AU	US- 6,033,446	03-07-2000	Cherpeck et al.	All
	AV	US- 6,194,597 B1	02-27-2001	Faust et al.	All
	AW	US- 6,407,066 B1	06-18-2002	Dressen et al.	All
	AX	US- 6,515,083 B2	02-04-2003	Ozawa et al.	All

**FOREIGN PATENT DOCUMENTS**

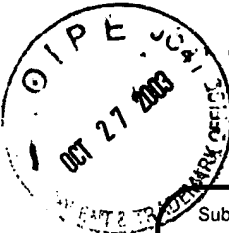
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	BA	WO 94/13706	06-23-1994	Exxon Chemical Patents Inc.	All	
	BB	WO 99/09074	02-25-1999	Infineum Holdings B.V.	All	
	BC	EP 0 397 081 A2	11-14-1990	Nippon Zeon Co., Ltd.	All	
	BD	EP 1 209 170 A1	05-29-2002	Kaneka Corporation	All	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/600,898		
		Filing Date	June 19, 2003		
		First Named Inventor	Casey D. Stokes et al.		
		Art Unit	1713		
		Examiner Name	Unassigned		
Sheet	2	of	2	Attorney Docket Number	T-5971

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	J.P. KENNEDY and ATSUSHI HAYASHI, Living Carbocationic Polymerization. XXXIX. Isobutylene Polymerization in the Presence of Pyridine and Various Other Electron Donors, J. Macromol. Sci. - Chem., A28(2), pp. 197-207 (1991) by Marcel Dekker, Inc.	
	CB	R.J. KEATON, Living Ziegler-Natta Polymerization, (2002) <a href="http://www.chem.wayne.edu/acs_organic_division/essay_2002/keaton.pdf">http://www.chem.wayne.edu/acs_organic_division/essay_2002/keaton.pdf</a> , 10/22/2003 retrived.	
	CC	R. FAUST and J.P. KENNEDY, Living Carbocationic Polymerization. XXI. Kinetic and Mechanistic Studies of Isobutylene Polymerization Initiated by Trimethylpentyl Esters of Different Acids, J. Macromol. Sci. - Chem., A27(6), pp. 649-667 (1990) by Marcel Dekker, Inc.	
	CD	B. KOROSKENYI and R. FAUST, Initiation Via Haloboration in Living Cationic Polymerization. 6. A Novel Method for the Synthesis of Primary Amine Functional Polyisobutylenes, J.M.S. - Pure Appl. Chem., A36(12), pp. 1879-1893 (1999) by Marcel Dekker, Inc.	
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	CF	S. HADJIKYRIACOU and R. FAUST, Living Coupling Reaction in Living Cationic Polymerization. 3. Coupling Reaction of Living Polyisobutylene Using Bis(furanyl) Derivatives, Macromolecules (2000), 33, 730-733 American Chemical Society	

Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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